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OM protein - protein search, using SW model

Run on: January 4, 2005, 12:02:44 ; Search time 154 Seconds  
 (without alignments)  
 619.623 Million cell updates/sec

Title: US-10-006-867-2  
 Perfect score: 1392  
 Sequence: 1 MWWFQQQLSFLPSALVIWTS.....YDTAPCPINNERTRLLSRDI 266

Scoring table: BLOSUM62  
 Gapop 10.0 , Gapext 0.5

Searched: 2002273 seqs, 358729299 residues

Total number of hits satisfying chosen parameters: 2002273

Minimum DB seq length: 0  
 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
 Maximum Match 100%  
 Listing first 45 summaries

Database : A\_GeneSeq\_23Sep04:  
 1: genebeqp1980s:  
 2: genebeqp1990s:  
 3: genebeqp2000s:  
 4: genebeqp2001s:  
 5: genebeqp2002s:  
 6: genebeqp2003as:  
 7: genebeqp2003bs:  
 8: genebeqp2004s:  
 9: genebeqp2004s:  
 10: genebeqp2004s:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Query	Score	Match	Length	DB	ID	Description
1	1392	100.0	266	3	AAY66636		Aay66636 Membrane-
2	1392	100.0	266	4	AAU29028		Aau29028 Human PRO
3	1392	100.0	266	4	AAM39568		Aam39568 Human pol
4	1392	100.0	266	4	AAB65159		Aab65159 Human PRO
5	1392	100.0	266	5	ABB90338		Abb90338 Human pol
6	1392	100.0	266	5	ABG95851		Abg95851 Human SEC
7	1392	100.0	266	6	ABU58404		Abu58404 Human PRO
8	1392	100.0	266	6	ABU87952		Abu87952 Novel hum
9	1392	100.0	266	6	ABUB4267		Abu84267 Human SEC
10	1392	100.0	266	6	ABR66141		Abr66141 Human SEC
11	1392	100.0	266	6	ABR65531		Abr65531 Human SEC
12	1392	100.0	266	6	ABU99471		Abu99471 Human SEC
13	1392	100.0	266	6	ABUS7974		Abu57974 Human PRO
14	1392	100.0	266	6	ABUS9052		Abu59052 Novel hum
15	1392	100.0	266	6	ABU82564		Abu82564 Human SEC
16	1392	100.0	266	6	ABU82710		Abu82710 Human PRO
17	1392	100.0	266	6	ABU89831		Abu89831 Novel hum
18	1392	100.0	266	6	ABR68080		Abr68080 Human SEC
19	1392	100.0	266	6	ADAS7044		Ada57044 Human SEC
20	1392	100.0	266	6	ABU60483		Abu60483 Human SEC
21	1392	100.0	266	6	ABU96133		Abu96133 Novel hum
22	1392	100.0	266	6	ABU92564		Abu92564 Human SEC
23	1392	100.0	266	6	ABO08641		Abo08641 Human SEC
24	1392	100.0	266	6	ABO02693		Abo02693 Human SEC
25	1392	100.0	266	6	ABR74847		Abr74847 Human SEC

26	1392	100.0	266	6	ABR4609	Human SEC
27	1392	100.0	266	6	ABU13865	Human PRO
28	1392	100.0	266	6	ABU5582	Human PRO
29	1392	100.0	266	6	ABU98742	Novel hum
30	1392	100.0	266	6	ABU97957	Novel hum
31	1392	100.0	266	6	ABU91663	Novel hum
32	1392	100.0	266	6	ABU89356	Human PRO
33	1392	100.0	266	6	ABU86197	Human SEC
34	1392	100.0	266	6	ABU67410	Human SEC
35	1392	100.0	266	6	ABU80438	Human PRO
36	1392	100.0	266	6	ABU72450	Novel hum
37	1392	100.0	266	6	ABU90876	Novel hum
38	1392	100.0	266	6	ABO33935	Human SEC
39	1392	100.0	266	6	ABR9356	Human SEC
40	1392	100.0	266	6	ABR98746	Human SEC
41	1392	100.0	266	6	ABO16269	Human SEC
42	1392	100.0	266	6	ABR92169	Human SEC
43	1392	100.0	266	6	ABO18810	Human SEC
44	1392	100.0	266	6	ABR78231	Human SEC
45	1392	100.0	266	6	ABU71952	Novel hum

#### ALIGNMENTS

RESULT 1						
ID	AAY66636					
XX	AAY66636;					
XX	XX	05-APR-2000	(first entry)			
XX	XX	DE	Membrane-bound protein PRO180.			
XX	XX	KW	Membrane-bound polypeptide; PRO polypeptide; LDL receptor; TIE ligand; pharmaceutical; receptor immunoadhesin; gene mapping.			
XX	XX	KW	Homo sapiens.			
XX	XX	OS				
XX	XX	PN	WO9963088-A2.			
XX	XX	PD	09-DEC-1999.			
XX	XX	PP	02-JUN-1999;	99WO-US012252.		
PR	PR	02-JUN-1998;	98US-0087607P.			
PR	PR	02-JUN-1998;	98US-0087609P.			
PR	PR	02-JUN-1998;	98US-0087759P.			
PR	PR	03-JUN-1998;	98US-0087827P.			
PR	PR	04-JUN-1998;	98US-0088021P.			
PR	PR	04-JUN-1998;	98US-0088025P.			
PR	PR	04-JUN-1998;	98US-0088028P.			
PR	PR	04-JUN-1998;	98US-0088029P.			
PR	PR	04-JUN-1998;	98US-0088030P.			
PR	PR	04-JUN-1998;	98US-0088033P.			
PR	PR	04-JUN-1998;	98US-0088326P.			
PR	PR	05-JUN-1998;	98US-0088167P.			
PR	PR	05-JUN-1998;	98US-0088202P.			
PR	PR	05-JUN-1998;	98US-0088212P.			
PR	PR	05-JUN-1998;	98US-0088217P.			
PR	PR	05-JUN-1998;	98US-0088217P.			
PR	PR	05-JUN-1998;	98US-0088655P.			
PR	PR	10-JUN-1998;	98US-0088722P.			
PR	PR	10-JUN-1998;	98US-0088741P.			
PR	PR	10-JUN-1998;	98US-0088742P.			
PR	PR	10-JUN-1998;	98US-0088810P.			
PR	PR	10-JUN-1998;	98US-0088811P.			
PR	PR	10-JUN-1998;	98US-0088824P.			
PR	PR	10-JUN-1998;	98US-0088825P.			

PR 10-JUN-1998; 98US-0088826P.  
 PR 11-JUN-1998; 98US-008885BP.  
 PR 11-JUN-1998; 98US-0088861P.  
 PR 11-JUN-1998; 98US-0088863P.  
 PR 12-JUN-1998; 98US-0088876P.  
 PR 12-JUN-1998; 98US-0089090P.  
 PR 16-JUN-1998; 98US-0089440P.  
 PR 16-JUN-1998; 98US-0089512P.  
 PR 16-JUN-1998; 98US-0089514P.  
 PR 17-JUN-1998; 98US-0089532P.  
 PR 17-JUN-1998; 98US-0089538P.  
 PR 17-JUN-1998; 98US-0089598P.  
 PR 17-JUN-1998; 98US-0089599P.  
 PR 17-JUN-1998; 98US-0089600P.  
 PR 18-JUN-1998; 98US-0089801P.  
 PR 18-JUN-1998; 98US-0089907P.  
 PR 18-JUN-1998; 98US-0089908P.  
 PR 19-JUN-1998; 98US-0089947P.  
 PR 19-JUN-1998; 98US-0089948P.  
 PR 19-JUN-1998; 98US-0089952P.  
 PR 22-JUN-1998; 98US-0090246P.  
 PR 22-JUN-1998; 98US-0090252P.  
 PR 23-JUN-1998; 98US-0090349P.  
 PR 23-JUN-1998; 98US-0090355P.  
 PR 24-JUN-1998; 98US-0090429P.  
 PR 24-JUN-1998; 98US-0090431P.  
 PR 24-JUN-1998; 98US-0090435P.  
 PR 24-JUN-1998; 98US-0090444P.  
 PR 24-JUN-1998; 98US-0090445P.  
 PR 24-JUN-1998; 98US-0090461P.  
 PR 24-JUN-1998; 98US-0090472P.  
 PR 24-JUN-1998; 98US-0090535P.  
 PR 24-JUN-1998; 98US-0090538P.  
 PR 24-JUN-1998; 98US-0090540P.  
 PR 25-JUN-1998; 98US-0090557P.  
 PR 25-JUN-1998; 98US-0090676P.  
 PR 25-JUN-1998; 98US-0090678P.  
 PR 25-JUN-1998; 98US-0090688P.  
 PR 25-JUN-1998; 98US-0090690P.  
 PR 25-JUN-1998; 98US-0090691P.  
 PR 25-JUN-1998; 98US-0090694P.  
 PR 25-JUN-1998; 98US-0090695P.  
 PR 01-JUL-1998; 98US-0090696P.  
 PR 26-JUN-1998; 98US-0091358P.  
 PR 01-JUL-1998; 98US-0091360P.  
 PR 02-JUL-1998; 98US-0091478P.  
 PR 02-JUL-1998; 98US-0091486P.  
 PR 02-JUL-1998; 98US-0091519P.  
 PR 02-JUL-1998; 98US-0091544P.  
 PR 02-JUL-1998; 98US-0091626P.  
 PR 02-JUL-1998; 98US-0091628P.  
 PR 02-JUL-1998; 98US-0091633P.  
 PR 02-JUL-1998; 98US-0091646P.  
 PR 07-JUL-1998; 98US-0091978P.  
 PR 07-JUL-1998; 98US-0091982P.  
 PR 09-JUL-1998; 98US-0092182P.  
 PR 10-JUL-1998; 98US-0092472P.  
 PR 20-JUL-1998; 98US-0091673P.  
 PR 30-JUL-1998; 98US-0091673P.  
 PR 04-AUG-1998; 98US-0094651P.  
 PR 04-AUG-1998; 98US-0095282P.  
 PR 04-AUG-1998; 98US-0095301P.  
 PR 04-AUG-1998; 98US-0095302P.  
 PR 04-AUG-1998; 98US-0095318P.  
 PR 04-AUG-1998; 98US-0095321P.  
 PR 04-AUG-1998; 98US-0095325P.  
 PR 10-AUG-1998; 98US-0095916P.

PR 10-AUG-1998; 98US-0095929P.  
 PR 10-AUG-1998; 98US-0096012P.  
 PR 11-AUG-1998; 98US-0096146P.  
 PR 12-AUG-1998; 98US-0096329P.  
 PR 17-AUG-1998; 98US-0096757P.  
 PR 17-AUG-1998; 98US-0096766P.  
 PR 17-AUG-1998; 98US-0096768P.  
 PR 17-AUG-1998; 98US-0096773P.  
 PR 17-AUG-1998; 98US-0096791P.  
 PR 17-AUG-1998; 98US-0096867P.  
 PR 17-AUG-1998; 98US-0096891P.  
 PR 17-AUG-1998; 98US-0096894P.  
 PR 17-AUG-1998; 98US-0096895P.  
 PR 18-AUG-1998; 98US-0096897P.  
 PR 18-AUG-1998; 98US-0096949P.  
 PR 18-AUG-1998; 98US-0096950P.  
 PR 18-AUG-1998; 98US-0096959P.  
 PR 18-AUG-1998; 98US-0096960P.  
 PR 18-AUG-1998; 98US-0097022P.  
 PR 19-AUG-1998; 98US-0097141P.  
 PR 20-AUG-1998; 98US-0097218P.  
 PR 24-AUG-1998; 98US-0097661P.  
 PR 26-AUG-1998; 98US-0097022P.  
 PR 26-AUG-1998; 98US-0097951P.  
 PR 26-AUG-1998; 98US-0097952P.  
 PR 26-AUG-1998; 98US-0097954P.  
 PR 26-AUG-1998; 98US-0097955P.  
 PR 26-AUG-1998; 98US-0097971P.  
 PR 26-AUG-1998; 98US-0097974P.  
 PR 26-AUG-1998; 98US-0097978P.  
 PR 26-AUG-1998; 98US-0097979P.  
 PR 26-AUG-1998; 98US-0097986P.  
 PR 26-AUG-1998; 98US-0098014P.  
 PR 31-AUG-1998; 98US-0098252P.  
 PR 16-SEP-1998; 98US-0100634P.  
 PR 12-JAN-1999; 99US-011565P.  
 XX PA (GETH ) GENENTECH INC.  
 XX PA  
 XX PI Baker K, Chen J, Goddard A, Gurney AL, Smith V, Watanabe CK;  
 PI Wood WI, Yuan J;  
 XX DR WPI: 2000-072883/06.  
 XX DR N-PSDB; AAZ64949.  
 XX PT Membrane-bound proteins and related nucleotide sequences.  
 XX PS Claim 12; Fig 15; 822pp; English.  
 XX CC The invention provides membrane-bound PRO polypeptides and  
 CC polynucleotides encoding them. The PRO sequences of the invention were  
 CC identified based on extracellular domain homology screening. The PRO  
 CC sequences have homology with proteins including LDL receptors, TIE  
 CC ligands and various enzymes. The membrane-bound proteins and receptor  
 CC molecules are useful as pharmaceutical and diagnostic agents. Receptor  
 CC immunoaffebins, for instance, can be used as therapeutic agents to block  
 CC receptor-ligand interactions. The membrane-bound proteins can also be  
 CC employed for screening of potential peptide or small molecule inhibitors  
 CC of the relevant receptor/ligand interaction. The PRO encoding sequences  
 CC are useful as hybridization probes, in chromosome and gene mapping and in  
 CC the generation of antisense RNA and DNA. PRO nucleic acid sequences will  
 CC also be useful for the preparation of PRO polypeptides, especially by  
 CC recombinant techniques  
 XX SQ Sequence 266 AA;  
 XX SQ  
 Query Match 100.0%; Score 1392; DB 3; Length 266;  
 Best Local Similarity 100.0%; Pred. No. 3.9e-149;  
 Matches 266; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 1 MWWFQQGLSFLPSALVITWTSAAFIFPSYITAVTLHHIDPALPYISDTGTVAPEKCLJFGAML  
 Db 1 MWWFQQGLSFLPSALVITWTSAAFIFPSYITAVTLHHIDPALPYISDTGTVAPEKCLJFGAML 60

**QY** 61 NIAAVLCIATIVRYKQVHALSPEENVIIKLNKAGLVLGILSCLGLSIVANFQKTTLFAA 120  
**Db** 61 NIAAVLCIATIVRYKQVHALSPEENVIIKLNKAGLVLGILSCLGLSIVANFQKTTLFAA 120

**QY** 121 HVSGAVLTFGMGSLYMFVQTILSYQMOPKIHGKQVFQWMSMSPLTCSV 180  
**Db** 121 HVSGAVLTFGMGSLYMFVQTILSYQMOPKIHGKQVFQWMSMSPLTCSV 180

**QY** 181 HSGNFGTDLEQCLHWNPDKGYVLMIMITTAEWSMSPSPFGGFLTYIRDQKISLRVEAN 240  
**Db** 181 HSGNFGTDLEQCLHWNPDKGYVLMIMITTAEWSMSFSSEFGFLTYIRDQKISLRVEAN 240

**QY** 241 LHGLTLYDTAPCPINNERTLLSRDI 266  
**Db** 241 LHGLTLYDTAPCPINNERTLLSRDI 266

**RESULT 2**  
**ID** AAU29028 standard; protein; 266 AA.  
**XX** AAU29028;  
**AC** XX  
**DT** 18-DEC-2001 (first entry)  
**XX** Human PRO polypeptide sequence #5.  
**DE** PRO polypeptide; mammal; tumour; cancer; human; cattle; horse; sheep;  
**XX** dog; cat; pig; goat; rabbit; tumour necrosis factor alpha; TNF-alpha;  
**XX** blood; chondrocyte cell; cell proliferation; cell differentiation; colon;  
**XX** adrenal; lung; breast; prostate; rectum; cervix; liver; genetic disorder.  
**OS** Homo sapiens.  
**PN** WO200168848-A2.  
**XX** 20-SEP-2001.  
**PD** 28-FEB-2001; 2001WO-US006520.  
**PP** XX  
**PR** 01-MAR-2000; 2000WO-US005601.  
**PR** 02-MAR-2000; 2000WO-US005841.  
**PR** 03-MAR-2000; 2000US-0187202P.  
**PR** 06-MAR-2000; 2000US-0186968P.  
**PR** 14-MAR-2000; 2000US-0189320P.  
**PR** 14-MAR-2000; 2000US-0189328P.  
**PR** 15-MAR-2000; 2000WO-US006884.  
**PR** 21-MAR-2000; 2000US-0190828P.  
**PR** 21-MAR-2000; 2000US-0191007P.  
**PR** 21-MAR-2000; 2000US-0191048P.  
**PR** 21-MAR-2000; 2000US-0191314P.  
**PR** 28-MAR-2000; 2000US-0192655P.  
**PR** 29-MAR-2000; 2000US-0193032P.  
**PR** 30-MAR-2000; 2000WO-US008439.  
**PR** 04-APR-2000; 2000US-0194449P.  
**PR** 04-APR-2000; 2000US-0194647P.  
**PR** 11-APR-2000; 2000US-0195975P.  
**PR** 11-APR-2000; 2000US-0196000P.  
**PR** 11-APR-2000; 2000US-0196187P.  
**PR** 11-APR-2000; 2000US-0196690P.  
**PR** 18-APR-2000; 2000US-0198121P.  
**PR** 18-APR-2000; 2000US-0198585P.  
**PR** 25-APR-2000; 2000US-0199397P.  
**PR** 25-APR-2000; 2000US-0199550P.  
**PR** 03-MAY-2000; 2000US-0201516P.  
**PR** 17-MAY-2000; 2000WO-US013705.  
**PR** 22-MAY-2000; 2000WO-US014042.  
**PR** 30-MAY-2000; 2000WO-US014941.  
**PR** 02-JUN-2000; 2000WO-US015264.

**PR** 05-JUN-2000; 2000US-0209832P.  
**PR** 28-JUL-2000; 2000WO-US020710.  
**PR** 22-AUG-2000; 2000US-00644848.  
**PR** 24-AUG-2000; 2000WO-US023328.  
**PR** 08-NOV-2000; 2000WO-US030952.  
**PR** 01-DEC-2000; 2000WO-US032678.  
**PR** 20-DEC-2000; 2000WO-US034956.  
**XX** PA (GETH ) GENENTECH INC.

**XX** PR Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL; Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;

**QY** PI Novel nucleic acids encoding PRO polypeptides, used to diagnose the presence of tumors, such as prostate and breast tumors, in mammals and to screen for modulators of the compounds.

**DB** PT Novel nucleic acids encoding PRO polypeptides, used to diagnose the presence of tumors, such as prostate and breast tumors, in mammals and to screen for modulators of the compounds.

**QY** XX DR WPI: 2001-602746/68.  
**DB** XX DR N-PSDB; AAS45929.

**QY** XX PS Claim 11; Fig 10; 774pp; English.

**DB** XX CC Sequences AAU29024-AAU29328 represent PRO polypeptides of the invention. The PRO polypeptides and their associated nucleic acids can be used to detect the presence of a tumour in a mammal by comparing the level of expression of a PRO polypeptide in a test sample of cells from the animal and a control sample of normal cells, whereby a higher level of expression in the test sample indicates the presence of a tumour in the mammal. Mammals include dogs, cats, cattle, horses, sheep, pigs, goats and rabbits but are preferably human. The polypeptides can be used to stimulate tumour necrosis factor (TNF) alpha release from human blood, when contacted with it. A specific polypeptide can be used to stimulate the proliferation or differentiation of chondrocyte cells. The PRO proteins can be used to determine the presence of tumours and also susceptibility to tumour development, particularly adrenal, lung, colon, breast, prostate, rectal, cervical, or liver tumours, in mammalian subjects. The oligonucleotide probes specific for the PRO nucleic acids can be used for genetic analysis of individuals with genetic disorders.

**QY** XX SQ Sequence 266 AA;

**DB** XX Query Match 100.0%; Score 1392; DB 4; Length 266;  
 Best Local Similarity 100.0%; Pred. No. 3.9e-149;  
 Matches 266; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

**QY** 1 MWFFQQGLSFLPSALVIWTSAAFIFSYITAVTLHHDIDPALPYISDTGTVAPEKCLFGAML 60  
**DB** 1 MWFFQQGLSFLPSALVIWTSAAFIFSYITAVTLHHDIDPALPYISDTGTVAPEKCLFGAML 60

**QY** 61 NIAAVLCIATIVRYKQVHALSPEENVIIKLNKAGLVLGILSCLGLSIVANFQKTTLFAA 120  
**DB** 61 NIAAVLCIATIVRYKQVHALSPEENVIIKLNKAGLVLGILSCLGLSIVANFQKTTLFAA 120

**QY** 121 HVSGAVLTFGMSLQMFVOTILSYQMOPKIHGKQVFQWMSMSPLTCSV 180  
**DB** 121 HVSGAVLTFGMSLQMFVOTILSYQMOPKIHGKQVFQWMSMSPLTCSV 180

**QY** 181 HSGNFGTDLEQKLHWNPEDKGYVLMIMITTAEWSMSFSFFGFLTYIRDQKISLRVEAN 240  
**DB** 181 HSGNFGTDLEQKLHWNPEDKGYVLMIMITTAEWSMSFSFFGFLTYIRDQKISLRVEAN 240

**QY** 241 LHGLTLYDTAPCPINNERTLLSRDI 266  
**DB** 241 LHGLTLYDTAPCPINNERTLLSRDI 266

**RESULT 3**  
**ID** AAM39568 standard; protein; 266 AA.  
**XX** AC AAM39568;  
**XX** DT 22-OCT-2001 (first entry)

XX	Human polypeptide SEQ ID NO 2713.	Db	121 HVSGAVLTFGMGLYMFVQTILSYQMQPKIHGKQVFWIRLLVIWCGVSALSMLTCSVVL 180
KW	Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer;	Qy	181 HSGNFGTIDLEQKLHWNPEDKGYVLHMITTAEEWSMSFSEGGFFLTYIRDFOKISLRVEAN 240
KW	Peripheral nervous system; neuropathy; central nervous system; CNS;	Db	181 HSGNFGTIDLEQKLHWNPEDKGYVLHMITTAEEWSMSFSEGGFFLTYIRDFOKISLRVEAN 240
KW	Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;	Qy	241 LHGLTLYDTAPCPINNERTRLLSRDI 266
KW	amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;	Db	241 LHGLTLYDTAPCPINNERTRLLSRDI 266
KW	chemokinetic; thrombolytic; drug screening; arthritis; inflammation;		
XX	OS Homo sapiens.		
XX	PN WO200153312-A1.		
XX	PD 26-JUL-2001.		
XX	PF 26-DEC-2000; 2000WO-US034263.		
XX	PR 23-DEC-1999; 99US-00471275.		
PR 21-JAN-2000; 2000US-00488725.			XX DT 02-APR-2001 (first entry)
PR 25-APR-2000; 2000US-00552317.			XX DE Human PRO180 (UNQ154) protein sequence SEQ ID NO:23 .
PR 20-JUN-2000; 2000US-00598042.			XX KW Human; secreted and transmembrane protein; PRO; cytostatic; cell death;
PR 19-JUL-2000; 2000US-00620312.			KW cancer; chromosomal mapping; gene mapping; tissue typing;
PR 03-AUG-2000; 2000US-00653450.			KW diagnostic assay.
PR 14-SEP-2000; 2000US-00662191.			XX OS Homo sapiens.
PR 19-OCT-2000; 2000US-00693036.			XX PN WO200073454-A1.
PR 29-NOV-2000; 2000US-00727344.			XX PD 07-DEC-2000.
XX PA (HYSEQ-) HYSEQ INC.			XX PP 30-MAR-2000; 2000WO-US008439.
PI Tang YT, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D, Wang J, Wang Z, Wehrman T, Xu C, Xu AJ, Yang Y, Zhang J, Zhao QA;			XX PR 02-JUN-1999; 99WO-US012252.
PI Zhou P, Goodrich R, Drmanac RT;			PR 23-JUN-1999; 99US-0141037P.
XX DR WPI; 2001-442253/47.			PR 07-JUL-1999; 99US-0143048P.
DR N-PSDB; AAI58724.			PR 20-JUL-1999; 99US-0144758P.
XX PT Novel nucleic acids and polypeptides, useful for treating disorders such as central nervous system injuries.			PR 26-JUL-1999; 99US-0145698P.
PT PS Example 4; SEQ ID NO 2713; 10078pp; English.			PR 28-JUL-1999; 99US-0146222P.
XX PR The invention relates to human nucleic acids (AAI57798-AAI61369) and the encoded polypeptides (AAM38642-AAM42213) with nootropic, immunosuppressant and cytostatic activity. The polynucleotides are useful in gene therapy. A composition containing a polypeptide or polynucleotide of the invention may be used to treat diseases of the peripheral nervous system, such as peripheral nervous injuries, peripheral neuropathy and localised neuropathies and central nervous system diseases, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager Syndrome. Other uses include the utilisation of the activities such as: Immune system suppression, Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic and thrombolytic activity, cancer diagnosis and therapy, drug screening, assays for receptor activity, arthritis and inflammation, leukaemias and C.N.S disorders. Note: The sequence data for this patent did not form part of the printed specification.			PR 29-JUL-1999; 99US-0149396P.
XX PR Sequence 266 AA;			PR 17-AUG-1999; 99US-0149396P.
CC PR The invention relates to human nucleic acids (AAI57798-AAI61369) and the encoded polypeptides (AAM38642-AAM42213) with nootropic, immunosuppressant and cytostatic activity. The polynucleotides are useful in gene therapy. A composition containing a polypeptide or polynucleotide of the invention may be used to treat diseases of the peripheral nervous system, such as peripheral nervous injuries, peripheral neuropathy and localised neuropathies and central nervous system diseases, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager Syndrome. Other uses include the utilisation of the activities such as: Immune system suppression, Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic and thrombolytic activity, cancer diagnosis and therapy, drug screening, assays for receptor activity, arthritis and inflammation, leukaemias and C.N.S disorders. Note: The sequence data for this patent did not form part of the printed specification.			PR 15-SEP-1999; 99WO-US021090.
CC PR Sequence 266 AA;			PR 15-SEP-1999; 99WO-US021547.
CC PR Sequence 266 AA;			PR 08-OCT-1999; 99US-0158663P.
CC PR Sequence 266 AA;			PR 30-NOV-1999; 99WO-US028313.
CC PR Sequence 266 AA;			PR 01-DEC-1999; 99WO-US028301.
CC PR Sequence 266 AA;			PR 16-DEC-1999; 99WO-US030095.
CC PR Sequence 266 AA;			PR 20-DEC-1999; 99WO-US030911.
CC PR Sequence 266 AA;			PR 05-JAN-2000; 2000WO-US00219.
CC PR Sequence 266 AA;			PR 06-JAN-2000; 2000WO-US00376.
CC PR Sequence 266 AA;			PR 11-FEB-2000; 2000WO-US003565.
CC PR Sequence 266 AA;			PR 18-FEB-2000; 2000WO-US004341.
CC PR Sequence 266 AA;			PR 22-FEB-2000; 2000WO-US004414.
CC PR Sequence 266 AA;			PR 24-FEB-2000; 2000WO-US004914.
CC PR Sequence 266 AA;			PR 24-FEB-2000; 2000WO-US005004.
CC PR Sequence 266 AA;			PR 02-MAR-2000; 2000WO-US005841.
CC PR Sequence 266 AA;			PR 15-MAR-2000; 2000WO-US006884.
CC PR Sequence 266 AA;			PR 20-MAR-2000; 2000WO-US007377.
XX PR (GETH ) GENENTECH INC.			XX PA
Qy Query Match 100.0%; Score 1392; DB 4; Length 266;			XX PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
Matches Best Local Similarity 100.0%; Pred. No. 3.9e-149; Mismatches 0; Indels 0; Gaps 0;			PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;
Db 1 MWFFQQGLSFLFSALVIWTSAAAFIFSYYITAVTLHIDPALPYISDTGTVAPEKCLFGAML 60			PI Grimaldi CJ, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF;
Db 1 MWFFQQGLSFLFSALVIWTSAAAFIFSYYITAVTLHIDPALPYISDTGTVAPEKCLFGAML 60			PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
Qy 61 NIAAVLCAIATIVRYKQVHALSPEENVTKLNKAGLVLGILSCLGLSIVANFOKTTLFAA 120			PI Zhang Z;
Db 61 NIAAVLCAIATIVRYKQVHALSPEENVTKLNKAGLVLGILSCLGLSIVANFOKTTLFAA 120			XX DR N-PSDB; AAP44095.
Qy 121 HVSGAVLTFGMGLYMFVQTILSYQMQPKIHGKQVFWIRLLVIWCGVSALSMLTCSVVL 180			XX PT PRO polynucleotides used to produce polypeptides used to target bioactive molecules such as toxins, radiolabels or antibodies, to specific cells, to cause targeted cell death.

XX Claim 12; Fig 15; 935pp; English.

PS The present invention describes human secreted and transmembrane PRO proteins. The PRO proteins have cytosstatic activity. The PRO proteins can be used for targeted delivery of bioactive molecules, such as toxins, radiolabels or antibodies, that cause cell death. PRO nucleotide sequences, and their fragments, can be used as hybridisation probes, in chromosomal and gene mapping, and in the generation of anti-sense RNA and DNA. They may also be used to produce transgenic animals which are used to develop and screen therapeutically useful reagents. The PRO nucleotide and protein sequence can be used for tissue typing and in treating cancer. Anti-PRO antibodies can be used in diagnostic assays. AAF44270 to AAF4470 represent PCR primers and hybridisation probes used in the isolation of human PRO sequences. AAF4487 to AAF44269 and AAB65154 to AAB65300 represent human PRO polynucleotide and protein sequences given in the exemplification of the present invention

XX SQ Sequence 266 AA;

Query Match	100.0%	Score 1392; DB 4; Length 266;
Best Local Similarity	100.0%	Pred. No. 3.9e-149;
Matches 266; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		

Qy 1 MWFFQQGLSFPLPSALVIWTSAAAFIFSYITAVTLHIDPALPYISDTGTVAPEKCLFGAML 60  
Db 1 MWFFQQGLSFPLPSALVIWTSAAAFIFSYITAVTLHIDPALPYISDTGTVAPEKCLFGAML 60

Qy 61 NIAAVLCIATIVRYKQVHALSPEENVIIKLNKAGLVLGILSCLGLSIVANFQKTTLFAA 120  
Db 61 NIAAVLCIATIVRYKQVHALSPEENVIIKLNKAGLVLGILSCLGLSIVANFQKTTLFAA 120

Qy 121 HVSGAVLTFGMGSLYMFVQTILSYQMOPKINGKQVFWIRLLVIVCGVSALSMLTCSSSL 180  
Db 121 HVSGAVLTFGMGSLYMFVQTILSYQMOPKINGKQVFWIRLLVIVCGVSALSMLTCSSSL 180

Qy 181 HSGNFGTDLQQKLHNPDKGXYLHMITAEEWSMSFSPPGFLTYIRDFOQKISLRVEAN 240  
Db 181 HSGNFGTDLQQKLHNPDKGXYLHMITAEEWSMSFSPPGFLTYIRDFOQKISLRVEAN 240

Qy 241 LHGLTLYDTAPCPINNERTLLSRDI 266  
Db 241 LHGLTLYDTAPCPINNERTLLSRDI 266

RESULT 5  
ID ABB90338 standard; protein; 266 AA.  
XX AC ABB90338;  
XX DT 24-MAY-2002 (first entry)  
XX DE Human polypeptide SEQ ID NO 2714.  
XX OS Homo sapiens.  
XX PN WO200190304-A2.  
XX PD 29-NOV-2001.  
XX ID ABG95851 standard; protein; 266 AA.  
XX AC ABG95851;  
XX DT 10-DEC-2002 (first entry)  
XX DB Human secreted/transmembrane protein PRO180.  
XX KW Human; secreted protein; transmembrane protein; antirheumatic;  
KW antiarthritic; osteopathic; sports-related joint problem;  
KW articular cartilage defect; osteoarthritis; rheumatoid arthritis.  
XX OS Homo sapiens.

XX PI Birse CE, Rosen CA;  
XX DR WPI; 2002-122018/16.  
XX DR N-PSDB; ABL90747.

XX PT Novel 1405 isolated polypeptides, useful for diagnosis, treatment and prevention of neural, immune system, muscular, reproductive, gastrointestinal, pulmonary, cardiovascular, renal and proliferative disorders.

XX PS Claim 11; SEQ ID NO 2714; 2081pp + Sequence Listing; English.

XX CC The invention relates to novel genes (ABL89449-ABL90853) and proteins (ABL89040-ABL9044) useful for preventing, treating or ameliorating medical conditions e.g. by protein or gene therapy. The genes are isolated from a range of human tissues disclosed in the specification. The nucleic acids, proteins, antibodies and (ant)agonists are useful in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and ovarian cancer and other cancers of the adrenal gland, bone, bone marrow, breast, gastrointestinal tract, liver, lung, or urogenital; (b) immune anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease, multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c) cardiovascular disorders such as myocardial ischaemias; (d) wound healing (e.g. cerebral anoxia and epilepsy); and (f) neurological diseases such as viral, bacterial, fungal and parasitic infections. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at [ftp://ftp.wipo.int/pub/published\\_pct\\_sequences](ftp://ftp.wipo.int/pub/published_pct_sequences)

XX SQ Sequence 266 AA;

Query Match	100.0%	Score 1392; DB 5; Length 266;
Best Local Similarity	100.0%	Pred. No. 3.9e-149;
Matches 266; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		

Qy 1 MWFFQQGLSFPLPSALVIWTSAAAFIFSYITAVTLHIDPALPYISDTGTVAPEKCLFGAML 60  
Db 1 MWFFQQGLSFPLPSALVIWTSAAAFIFSYITAVTLHIDPALPYISDTGTVAPEKCLFGAML 60

Qy 61 NIAAVLCIATIVRYKQVHALSPEENVIIKLNKAGLVLGILSCLGLSIVANFQKTTLFAA 120  
Db 61 NIAAVLCIATIVRYKQVHALSPEENVIIKLNKAGLVLGILSCLGLSIVANFQKTTLFAA 120

Qy 121 HVSGAVLTFGMGSLYMFVQTILSYQMOPKINGKQVFWIRLLVIVCGVSALSMLTCSSSL 180  
Db 121 HVSGAVLTFGMGSLYMFVQTILSYQMOPKINGKQVFWIRLLVIVCGVSALSMLTCSSSL 180

Qy 181 HSGNFGTDLQQKLHNPDKGXYLHMITAEEWSMSFSPPGFLTYIRDFOQKISLRVEAN 240  
Db 181 HSGNFGTDLQQKLHNPDKGXYLHMITAEEWSMSFSPPGFLTYIRDFOQKISLRVEAN 240

Qy 241 LHGLTLYDTAPCPINNERTLLSRDI 266  
Db 241 LHGLTLYDTAPCPINNERTLLSRDI 266

RESULT 6  
ID ABG95851  
XX AC ABG95851 standard; protein; 266 AA.  
XX DT 10-DEC-2002 (first entry)  
XX DB Human secreted/transmembrane protein PRO180.  
XX KW Human; secreted protein; transmembrane protein; antirheumatic;  
KW antiarthritic; osteopathic; sports-related joint problem;  
KW articular cartilage defect; osteoarthritis; rheumatoid arthritis.  
XX OS Homo sapiens.

XX PN WO200190304-A2.  
XX PD 29-NOV-2001.  
XX ID ABG95851  
XX AC ABG95851;  
XX DT 10-DEC-2002 (first entry)  
XX DB Human secreted/transmembrane protein PRO180.  
XX KW Human; secreted protein; transmembrane protein; antirheumatic;  
KW antiarthritic; osteopathic; sports-related joint problem;  
KW articular cartilage defect; osteoarthritis; rheumatoid arthritis.  
XX OS Homo sapiens.

XX PN 18-MAY-2001; 2001WO-US016450.  
XX PR 19-MAY-2000; 2000US-0205515P.  
XX PA (HUMA-) HUMAN GENOME SCI INC.  
XX

PN US2002119130-A1.  
 XX 29-AUG-2002.  
 PD 06-DEC-2001; 2001US-00006867.  
 XX PR 29-OCT-1997; 97US-0063435P.  
 PR 29-OCT-1997; 97US-0064215P.  
 PR 22-APR-1998; 98US-0082797P.  
 PR 29-APR-1998; 98US-0083495P.  
 PR 15-MAY-1998; 98US-0085579P.  
 PR 02-JUN-1998; 98US-0087759P.  
 PR 04-JUN-1998; 98US-0088021P.  
 PR 04-JUN-1998; 98US-0088029P.  
 PR 04-JUN-1998; 98US-0088030P.  
 PR 10-JUN-1998; 98US-0088734P.  
 PR 10-JUN-1998; 98US-0088811P.  
 PR 10-JUN-1998; 98US-0088824P.  
 PR 10-JUN-1998; 98US-0088825P.  
 PR 11-JUN-1998; 98US-0088863P.  
 PR 12-JUN-1998; 98US-0089105P.  
 PR 16-JUN-1998; 98US-0089140P.  
 PR 17-JUN-1998; 98US-0089514P.  
 PR 19-JUN-1998; 98US-0089653P.  
 PR 22-JUN-1998; 98US-0089952P.  
 PR 24-JUN-1998; 98US-0090246P.  
 PR 25-JUN-1998; 98US-0090444P.  
 PR 25-JUN-1998; 98US-0090688P.  
 PR 26-JUN-1998; 98US-0090696P.  
 PR 02-JUL-1998; 98US-0090862P.  
 PR 10-AUG-1998; 98US-0091628P.  
 PR 17-AUG-1998; 98US-0091629P.  
 PR 18-AUG-1998; 98US-009649P.  
 PR 18-AUG-1998; 98US-0096959P.  
 PR 26-AUG-1998; 98US-0097954P.  
 PR 26-AUG-1998; 98US-0097971P.  
 PR 01-SEP-1998; 98US-0097979P.  
 PR 10-SEP-1998; 98US-0099741P.  
 PR 10-SEP-1998; 98US-0099763P.  
 PR 10-SEP-1998; 98US-0099792P.  
 PR 10-SEP-1998; 98US-0099812P.  
 PR 17-SEP-1998; 98US-0100684P.  
 PR 17-SEP-1998; 98US-0100930P.  
 PR 22-SEP-1998; 98US-0100662P.  
 PR 23-SEP-1998; 98US-01019330.  
 PR 17-SEP-1998; 98US-0100683P.  
 PR 24-SEP-1998; 98US-0101738P.  
 PR 24-SEP-1998; 98US-0101743P.  
 PR 06-OCT-1998; 98US-0101916P.  
 PR 08-MAR-1999; 99WO-US005028.  
 PR 14-MAY-1999; 99WO-US010733.  
 PR 02-JUN-1999; 99WO-US012252.  
 PR 01-SEP-1999; 99WO-US020111.  
 PR 15-SEP-1999; 99WO-US021090.  
 PR 15-SEP-1999; 99WO-US021194.  
 PR 22-DEC-1999; 99WO-US030720.  
 PR 18-FEB-2000; 2000WO-US004341.  
 PR 18-FEB-2000; 2000WO-US004342.  
 PR 22-FEB-2000; 2000WO-US004414.  
 PR 01-MAR-2000; 2000WO-US005601.  
 PR 30-MAR-2000; 2000WO-US008439.  
 PR 22-MAY-2000; 2000WO-US014042.  
 PR 02-JUN-2000; 2000WO-US015264.  
 PR 23-AUG-2000; 2000WO-US023522.  
 PR 24-AUG-2000; 2000WO-US023328.

PR 10-NOV-2000; 2000WO-US030873.  
 PR 01-DEC-2000; 2000WO-US032378.  
 PR 20-DEC-2000; 2000WO-US034956.  
 PR 28-FEB-2001; 2001WO-0001.  
 PR 01-MAR-2001; 2001WO-US006666.  
 PR 30-MAY-2001; 2001WO-US017443.  
 PR 01-JUN-2001; 2001WO-US017800.  
 PR 20-JUN-2001; 2001WO-US019692.  
 PR 29-JUN-2001; 2001WO-US021066.  
 PR 09-JUL-2001; 2001WO-US021735.  
 XX PA (GETH ) GENENTECH INC.  
 XX PI Eaton DL, Filvaroff E, Gerritsen ME, Goddard A, Godowski PJ, Wood WI;  
 XX PI Grimaldi JC, Gurney AL, Watanabe CK,  
 XX DR WPI; 2002-731348/79.  
 XX DR N-PSDB; ABS74378.  
 XX PS Claim 20; Fig 2; 399pp; English.  
 XX CC The invention relates to an isolated secreted and transmembrane PRO polypeptide having 80 % sequence identity to a sequence appearing as ABG95851 ABG95934 or their associated signal peptide, or a sequence of an extracellular domain of the proteins with their associated signal peptide or lacking its associated signal peptide. Also included are the nucleic acids encoding the proteins, vectors, host cells, fusion proteins and antibodies which specifically bind to the proteins. The proteins are useful for detecting a polypeptide designated as A, B, C or D in a sample suspected of containing an A, B, C or D polypeptide, by contacting the sample with a polypeptide designated as E, F, G, H or I (or vice versa) and determining the formation of a A/E, B/F, C/G, D/H or D/I polypeptide conjugate in the sample, where the formation of the conjugate is indicative of the presence of an A, B, C or D in a sample, where A is a PRO10272 polypeptide, B is a PRO20110 polypeptide, C is a PRO10096 polypeptide, D is a PRO19760 polypeptide, E is a PRO5801 polypeptide, F is a PRO1 polypeptide, G is a PRO20040 polypeptide, H is a PRO20233 polypeptide and I is a PRO1890 polypeptide. The sample comprises a cell suspected of expressing the A, B, C or D polypeptide. The E, F, G, H or I polypeptide is labeled with a detectable label or is attached to a solid support. The proteins are useful for linking a bioactive molecule to a cell expressing a polypeptide designated as A, B, C or D or E, F, G, H or I. The bioactive molecule is a toxin, a radiolabel or an antibody. The bioactive molecule causes death of the cell. A, B, C, D, E, F, G, H, or I, or antibodies against them are useful for modulating a biological activity of a cell expressing a polypeptide designated as A, B, C or D or E, F, G, H, or I. The cell is killed. The proteins are useful for identifying agonists or antagonists, for the preparation of a medicament useful in the treatment of a condition which is responsive to the proteins, as molecular weight markers for protein electrophoresis purposes, and as therapeutic agents for treating sports-related joint problems, articular cartilage defects, osteoarthritis or rheumatoid arthritis. Nucleic acids encoding the proteins are useful as hybridisation probes, in chromosome and gene mapping, in the generation of anti-sense RNA and DNA, for the preparation of the proteins, to generate transgenic or knockout animals which are useful in the development and screening of therapeutic useful reagents, for chromosome identification, and in gene therapy. The antibody is useful as a therapeutic agent, in a diagnostic assay and for affinity purification of the protein from recombinant cell culture natural sources. The present sequence represents a novel secreted or transmembrane protein of the invention  
 XX SQ Sequence 266 AA;

Query Match 100.0%; Score 1392; DB 5; Length 266;  
 Best Local Similarity 100.0%; Pred. No. 3.9e-149;  
 Matches 266; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

**RESULT 7**  
**ABU58404**  
**ID ABU58404 standard; protein; 266 AA.**  
**XX ABU58404;**  
**XX DT 15-APR-2003 (first entry)**  
**DE Human PRO polypeptide #5.**  
**XX KW Human; PRO; cytosstatic; tumour; cancer; breast; lung; stomach; liver;**  
**KW dog; cat; cow; horse; sheep; pig; goat; rabbit; ADDEPT;**  
**KW antibody-dependent enzyme mediated prodrug therapy.**  
**XX OS Homo sapiens.**  
**XX PN US2003027272-A1.**  
**XX PD 06-FEB-2003.**  
**XX PF 21-JUN-2002; 2002US-00176492.**  
**XX PR 18-SEP-1997; 97US-0059263P.**  
**PR 18-SEP-1997; 97US-0059266P.**  
**PR 17-OCT-1997; 97US-0062250P.**  
**PR 21-OCT-1997; 97US-0063486P.**  
**PR 24-OCT-1997; 97US-0063120P.**  
**PR 24-OCT-1997; 97US-0063121P.**  
**PR 28-OCT-1997; 97US-0063540P.**  
**PR 28-OCT-1997; 97US-0063541P.**  
**PR 28-OCT-1997; 97US-0063544P.**  
**PR 28-OCT-1997; 97US-0063564P.**  
**PR 29-OCT-1997; 97US-0063734P.**  
**PR 31-OCT-1997; 97US-0063870P.**  
**PR 31-OCT-1997; 97US-0064103P.**  
**PR 13-NOV-1997; 97US-0065311P.**  
**PR 21-NOV-1997; 97US-0066120P.**  
**PR 24-NOV-1997; 97US-0066466P.**  
**PR 24-NOV-1997; 97US-0066772P.**  
**PR 11-DEC-1997; 97US-0069335P.**  
**PR 12-DEC-1997; 97US-0069425P.**  
**PR 17-DEC-1997; 97US-0069870P.**  
**PR 18-DEC-1997; 97US-0068017P.**  
**PR 10-MAR-1998; 98US-0077450P.**  
**PR 11-MAR-1998; 98US-0077632P.**  
**PR 11-MAR-1998; 98US-0077649P.**  
**PR 20-MAR-1998; 98US-0078866P.**  
**PR 20-MAR-1998; 98US-0078939P.**  
**PR 27-MAR-1998; 98US-0079664P.**  
**PR 27-MAR-1998; 98US-0079786P.**  
**PR 31-MAR-1998; 98US-0080107P.**  
**PR 31-MAR-1998; 98US-0080194P.**

**PR 01-APR-1998; 98US-0080327P.**  
**PR 01-APR-1998; 98US-0080333P.**  
**PR 08-APR-1998; 98US-0081049P.**  
**PR 08-APR-1998; 98US-0081070P.**  
**PR 09-APR-1998; 98US-0081195P.**  
**PR 15-APR-1998; 98US-0081838P.**  
**PR 21-APR-1998; 98US-0082568P.**  
**PR 21-APR-1998; 98US-0082569P.**  
**PR 22-APR-1998; 98US-0082704P.**  
**PR 22-APR-1998; 98US-0082797P.**  
**PR 28-APR-1998; 98US-008322P.**  
**PR 29-APR-1998; 98US-0083495P.**  
**PR 29-APR-1998; 98US-0083496P.**  
**PR 29-APR-1998; 98US-0083499P.**  
**PR 29-APR-1998; 98US-0083559P.**  
**PR 05-MAY-1998; 98US-0084366P.**  
**PR 06-MAY-1998; 98US-0084414P.**  
**PR 07-MAY-1998; 98US-0084639P.**  
**PR 07-MAY-1998; 98US-0084640P.**  
**PR 07-MAY-1998; 98US-0084643P.**  
**PR 15-MAY-1998; 98US-0085579P.**  
**PR 15-MAY-1998; 98US-0085580P.**  
**PR 15-MAY-1998; 98US-0085582P.**  
**PR 15-MAY-1998; 98US-0085700P.**  
**PR 18-MAY-1998; 98US-0086023P.**  
**PR 22-MAY-1998; 98US-0086392P.**  
**PR 22-MAY-1998; 98US-0086486P.**  
**PR 28-MAY-1998; 98US-0087098P.**  
**PR 28-MAY-1998; 98US-0087208P.**  
**PR 02-JUN-1998; 98US-0087609P.**  
**PR 02-JUN-1998; 98US-0087759P.**  
**PR 03-JUN-1998; 98US-0087827P.**  
**PR 04-JUN-1998; 98US-0088025P.**  
**PR 04-JUN-1998; 98US-0088028P.**  
**PR 04-JUN-1998; 98US-0088029P.**  
**PR 04-JUN-1998; 98US-0088033P.**  
**PR 04-JUN-1998; 98US-0088326P.**  
**PR 05-JUN-1998; 98US-0088167P.**  
**PR 05-JUN-1998; 98US-0088202P.**  
**PR 05-JUN-1998; 98US-0088212P.**  
**PR 05-JUN-1998; 98US-0088217P.**  
**PR 09-JUN-1998; 98US-0088655P.**  
**PR 10-JUN-1998; 98US-0088722P.**  
**PR 10-JUN-1998; 98US-0088738P.**  
**PR 10-JUN-1998; 98US-00888740P.**  
**PR 11-JUN-1998; 98US-0088811P.**  
**PR 11-JUN-1998; 98US-0088824P.**  
**PR 12-JUN-1998; 98US-0088825P.**  
**PR 10-JUN-1998; 98US-0088826P.**  
**PR 11-JUN-1998; 98US-0088861P.**  
**PR 11-JUN-1998; 98US-0088863P.**  
**PR 12-JUN-1998; 98US-0088876P.**  
**PR 10-JUN-1998; 98US-0088909P.**  
**PR 12-JUN-1998; 98US-00889105P.**  
**PR 18-JUN-1998; 98US-0088908P.**  
**PR 19-JUN-1998; 98US-0088952P.**  
**PR 22-JUN-1998; 98US-0090252P.**  
**PR 24-JUN-1998; 98US-0090254P.**  
**PR 24-JUN-1998; 98US-0090429P.**  
**PR 24-JUN-1998; 98US-0090435P.**  
**PR 24-JUN-1998; 98US-0090444P.**  
**PR 24-JUN-1998; 98US-0090461P.**  
**PR 24-JUN-1998; 98US-0090535P.**  
**PR 24-JUN-1998; 98US-0090540P.**  
**PR 25-JUN-1998; 98US-0090676P.**  
**PR 25-JUN-1998; 98US-0090678P.**  
**PR 25-JUN-1998; 98US-0090688P.**

PR	25-JUN-1998;	98US-0090690P.	PR	02-OCT-1998;	98US-0102965P.
PR	25-JUN-1998;	98US-0090694P.	PR	06-OCT-1998;	98US-0103258P.
PR	25-JUN-1998;	98US-0090695P.	PR	06-OCT-1998;	98US-0103449P.
PR	25-JUN-1998;	98US-0090696P.	PR	07-OCT-1998;	98US-00168978.
PR	26-JUN-1998;	98US-00105413..			
PR	26-JUN-1998;	98US-0090862P.			
PR	26-JUN-1998;	98US-0090863P.			
PR	26-JUN-1998;	98US-0091010P.			
PR	01-JUL-1998;	98US-0091359P.			
PR	01-JUL-1998;	98US-0091544P.			
PR	02-JUL-1998;	98US-0091478P.			
PR	02-JUL-1998;	98US-0091486P.			
PR	02-JUL-1998;	98US-0091626P.			
PR	02-JUL-1998;	98US-0091628P.			
PR	02-JUL-1998;	98US-0091632P.			
PR	24-JUL-1998;	98US-0094006P.			
PR	04-AUG-1998;	98US-0095282P.			
PR	10-AUG-1998;	98US-0095998P.			
PR	10-AUG-1998;	98US-0096012P.			
PR	17-AUG-1998;	98US-0096757P.			
PR	17-AUG-1998;	98US-0096766P.			
PR	17-AUG-1998;	98US-0096867P.			
PR	17-AUG-1998;	98US-0096891P.			
PR	17-AUG-1998;	98US-0096897P.			
PR	18-AUG-1998;	98US-0096949P.			
PR	18-AUG-1998;	98US-0097954P.			
PR	26-AUG-1998;	98US-0097955P.			
PR	26-AUG-1998;	98US-0097971P.			
PR	26-AUG-1998;	98US-0097974P.			
PR	26-AUG-1998;	98US-0098014P.			
PR	01-SEP-1998;	98US-0098716P.			
PR	01-SEP-1998;	98US-0098723P.			
PR	02-SEP-1998;	98US-0098803P.			
PR	02-SEP-1998;	98US-0098821P.			
PR	09-SEP-1998;	98US-0098843P.			
PR	09-SEP-1998;	98US-0099602P.			
PR	10-SEP-1998;	98US-0099741P.			
PR	10-SEP-1998;	98US-0099754P.			
PR	10-SEP-1998;	98US-0099763P.			
PR	10-SEP-1998;	98US-0099812P.			
PR	15-SEP-1998;	98US-0100388P.			
PR	16-SEP-1998;	98US-0100662P.			
PR	16-SEP-1998;	98US-0100664P.			
PR	16-SEP-1998;	98US-0101751P.			
PR	16-SEP-1998;	98WO-US019330..			
PR	17-SEP-1998;	98US-0100683P..			
PR	17-SEP-1998;	98US-0100684P.			
PR	17-SEP-1998;	98US-0100919P.			
PR	18-SEP-1998;	98US-0100930P.			
PR	18-SEP-1998;	98US-0100849P.			
PR	18-SEP-1998;	98US-0101014P.			
PR	18-SEP-1998;	98US-0101068P.			
PR	23-SEP-1998;	98US-0101471P.			
PR	23-SEP-1998;	98US-0101472P.			
PR	23-SEP-1998;	98US-0101475P.			
PR	23-SEP-1998;	98US-0101477P.			
PR	24-SEP-1998;	98US-0101738P.			
PR	24-SEP-1998;	98US-0101739P.			
PR	24-SEP-1998;	98US-0101743P.			
PR	24-SEP-1998;	98US-0101922P.			
PR	25-SEP-1998;	98US-0101786P.			
PR	29-SEP-1998;	98US-0102207P.			
PR	29-SEP-1998;	98US-0102240P.			
PR	29-SEP-1998;	98US-0102330P.			
PR	29-SEP-1998;	98US-0102331P.			
PR	30-SEP-1998;	98US-0102487P.			
PR	30-SEP-1998;	98US-0102570P.			
PR	30-SEP-1998;	98US-0102571P.			
PR	01-OCT-1998;	98US-0102684P.			
PR	01-OCT-1998;	98US-0102687P.			
			PR	02-OCT-1998;	98US-0069425P.
			PR	12-DEC-1997;	97US-0066772P.
			PR	12-DEC-1997;	97US-0069425P.

Query Match 100.0%; Score 1392; DB 6; Length 266;  
 Best Local Similarity 100.0%; Pred. No. 3.9e-149;  
 Matches 266; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MWFFQQGLSFLPSALVIWTSAAFIFSYITAVTLHIDPALPYISDTGTVAPEKCLFGAML 60  
 Db 1 MWFFQQGLSFLPSALVIWTSAAFIFSYITAVTLHIDPALPYISDTGTVAPEKCLFGAML 60

QY 61 NIAAVLCIATIYRYKQVHALSPENVILKLNKAGLVGLSIVANFQKTTILFAA 120  
 Db 61 NIAAVLCIATIYRYKQVHALSPENVILKLNKAGLVGLSIVANFQKTTILFAA 120

QY 121 HVSGAVLTFGMGSLYMFVQTILSYQMOPKJHGKVFWIRLLVWCGVSALSMLTCSSVL 180  
 Db 121 HVSGAVLTFGMGSLYMFVQTILSYQMOPKJHGKVFWIRLLVWCGVSALSMLTCSSVL 180

QY 181 HSGNFGTDLDEQKLHWNPEDKGYVLHMITTAAEWSMSFSFFGFFLTYIRDFOQKISLRVEAN 240  
 Db 181 HSGNFGTDLDEQKLHWNPEDKGYVLHMITTAAEWSMSFSFFGFFLTYIRDFOQKISLRVEAN 240

QY 241 LHGLTLYDTAPCPINNERTRLLSRDI 266  
 Db 241 LHGLTLYDTAPCPINNERTRLLSRDI 266

RESULT 8  
 ABU87952 ID ABU87952 standard; protein; 266 AA.  
 XX AC ABU87952;  
 XX DT 07-JUL-2003 (first entry)

Novel human secreted and transmembrane protein PRO180.  
 XX DE  
 XX KW Human; Secreted and transmembrane protein: PRO; Gene therapy;  
 KW tumour necrosis factor-alpha release; TNF-alpha release;  
 KW chondrocyte proliferation; chondrocyte differentiation; tumour;  
 KW adrenal tumour; lung tumour; colon tumour; breast tumour;  
 KW prostate tumour; rectal tumour; cervical tumour; liver tumour.  
 XX OS Homo sapiens.  
 XX PN US2003032127-A1.  
 XX PD 13-FEB-2003.

XX PR 26-JUN-2002; 2002US-00183012.  
 XX PR 18-SEP-1997; 97US-0059263P.  
 PR 18-SEP-1997; 97US-0059266P.  
 PR 17-OCT-1997; 97US-0062250P.  
 PR 21-OCT-1997; 97US-0063486P.  
 PR 24-OCT-1997; 97US-0063120P.  
 PR 24-OCT-1997; 97US-0063121P.  
 PR 28-OCT-1997; 97US-0063540P.  
 PR 28-OCT-1997; 97US-0063541P.  
 PR 28-OCT-1997; 97US-0063544P.  
 PR 28-OCT-1997; 97US-0063564P.  
 PR 29-OCT-1997; 97US-0063734P.  
 PR 31-OCT-1997; 97US-0063870P.  
 PR 31-OCT-1997; 97US-0064103P.  
 PR 13-NOV-1997; 97US-0065311P.  
 PR 21-NOV-1997; 97US-0066120P.  
 PR 24-NOV-1997; 97US-0066466P.  
 PR 24-NOV-1997; 97US-0066772P.  
 PR 11-DEC-1997; 97US-0069335P.  
 PR 12-DEC-1997; 97US-0069425P.

PR	17-DEC-1997;	97US-0069870P.	PR	22-JUN-1998;	98US-0090252P.
PR	18-DEC-1997;	97US-0068017P.	PR	22-JUN-1998;	98US-0090254P.
PR	10-MAR-1998;	98US-0077450P.	PR	24-JUN-1998;	98US-0090429P.
PR	11-MAR-1998;	98US-0077632P.	PR	24-JUN-1998;	98US-0090435P.
PR	11-MAR-1998;	98US-0077649P.	PR	24-JUN-1998;	98US-0090444P.
PR	20-MAR-1998;	98US-0078886P.	PR	24-JUN-1998;	98US-0090461P.
PR	20-MAR-1998;	98US-0078939P.	PR	24-JUN-1998;	98US-0090535P.
PR	27-MAR-1998;	98US-0079664P.	PR	24-JUN-1998;	98US-0090540P.
PR	27-MAR-1998;	98US-0079786P.	PR	25-JUN-1998;	98US-0090676P.
PR	31-MAR-1998;	98US-0080107P.	PR	25-JUN-1998;	98US-0090678P.
PR	31-MAR-1998;	98US-0080194P.	PR	25-JUN-1998;	98US-0090688P.
PR	01-APR-1998;	98US-0080327P.	PR	25-JUN-1998;	98US-0090690P.
PR	01-APR-1998;	98US-0080333P.	PR	25-JUN-1998;	98US-0090694P.
PR	21-APR-1998;	98US-0081049P.	PR	25-JUN-1998;	98US-0090695P.
PR	08-APR-1998;	98US-0081070P.	PR	25-JUN-1998;	98US-0090696P.
PR	09-APR-1998;	98US-0081195P.	PR	01-JUL-1998;	98US-00105413.
PR	15-APR-1998;	98US-0081838P.	PR	26-JUN-1998;	98US-0090862P.
PR	21-APR-1998;	98US-0082568P.	PR	26-JUN-1998;	98US-0090863P.
PR	21-APR-1998;	98US-0082569P.	PR	02-JUL-1998;	98US-0091010P.
PR	22-APR-1998;	98US-0082704P.	PR	02-JUL-1998;	98US-0091359P.
PR	22-APR-1998;	98US-0082797P.	PR	01-JUL-1998;	98US-0091544P.
PR	28-APR-1998;	98US-0083322P.	PR	02-JUL-1998;	98US-0091478P.
PR	29-APR-1998;	98US-0083495P.	PR	02-JUL-1998;	98US-0091486P.
PR	29-APR-1998;	98US-0083496P.	PR	02-JUL-1998;	98US-0091626P.
PR	29-APR-1998;	98US-0083499P.	PR	02-JUL-1998;	98US-0091628P.
PR	29-APR-1998;	98US-0083559P.	PR	02-JUL-1998;	98US-0091632P.
PR	05-MAY-1998;	98US-0084366P.	PR	24-JUL-1998;	98US-0094006P.
PR	06-MAY-1998;	98US-0084414P.	PR	04-AUG-1998;	98US-0095282P.
PR	07-MAY-1998;	98US-0084639P.	PR	10-AUG-1998;	98US-0095998P.
PR	07-MAY-1998;	98US-0084640P.	PR	10-AUG-1998;	98US-0096012P.
PR	07-MAY-1998;	98US-0084643P.	PR	17-AUG-1998;	98US-0096757P.
PR	15-MAY-1998;	98US-0085579P.	PR	17-AUG-1998;	98US-0096766P.
PR	15-MAY-1998;	98US-0085580P.	PR	17-AUG-1998;	98US-0096867P.
PR	22-MAY-1998;	98US-0085582P.	PR	18-AUG-1998;	98US-0096871P.
PR	28-MAY-1998;	98US-0085700P.	PR	18-AUG-1998;	98US-0096891P.
PR	15-MAY-1998;	98US-0086023P.	PR	18-AUG-1998;	98US-0096897P.
PR	18-MAY-1998;	98US-0086392P.	PR	18-AUG-1998;	98US-0096949P.
PR	22-MAY-1998;	98US-0086486P.	PR	26-AUG-1998;	98US-0097955P.
PR	02-JUN-1998;	98US-0087609P.	PR	26-AUG-1998;	98US-0097971P.
PR	03-JUN-1998;	98US-0087759P.	PR	26-AUG-1998;	98US-0097974P.
PR	04-JUN-1998;	98US-0088025P.	PR	26-AUG-1998;	98US-0098014P.
PR	04-JUN-1998;	98US-0088028P.	PR	01-SEP-1998;	98US-0098716P.
PR	05-JUN-1998;	98US-00887208P.	PR	02-SEP-1998;	98US-0098821P.
PR	05-JUN-1998;	98US-00886023P.	PR	02-SEP-1998;	98US-0098843P.
PR	05-JUN-1998;	98US-00886392P.	PR	09-SEP-1998;	98US-0099602P.
PR	05-JUN-1998;	98US-00887217P.	PR	10-SEP-1998;	98US-0099741P.
PR	05-JUN-1998;	98US-00888033P.	PR	10-SEP-1998;	98US-0099754P.
PR	10-JUN-1998;	98US-00888326P.	PR	10-SEP-1998;	98US-0099763P.
PR	10-JUN-1998;	98US-00888167P.	PR	10-SEP-1998;	98US-0101751P.
PR	10-JUN-1998;	98US-00888202P.	PR	16-SEP-1998;	98WO-US019330.
PR	10-JUN-1998;	98US-00888212P.	PR	17-SEP-1998;	98US-0100388P.
PR	10-JUN-1998;	98US-00888217P.	PR	15-SEP-1998;	98US-0100662P.
PR	10-JUN-1998;	98US-00888655P.	PR	16-SEP-1998;	98US-0100664P.
PR	10-JUN-1998;	98US-00888722P.	PR	16-SEP-1998;	98US-0100919P.
PR	10-JUN-1998;	98US-00888738P.	PR	17-SEP-1998;	98US-0101472P.
PR	10-JUN-1998;	98US-00888740P.	PR	18-SEP-1998;	98US-0101475P.
PR	11-JUN-1998;	98US-00888811P.	PR	18-SEP-1998;	98US-0101477P.
PR	11-JUN-1998;	98US-00888824P.	PR	23-SEP-1998;	98US-0101738P.
PR	11-JUN-1998;	98US-00888825P.	PR	24-SEP-1998;	98US-0101739P.
PR	12-JUN-1998;	98US-00889090P.	PR	24-SEP-1998;	98US-0101743P.
PR	12-JUN-1998;	98US-0089105P.	PR	24-SEP-1998;	98US-0101746P.
PR	16-JUN-1998;	98US-0089512P.	PR	24-SEP-1998;	98US-0089952P.
PR	16-JUN-1998;	98US-0089514P.	PR	24-SEP-1998;	98US-0090246P.
PR	17-JUN-1998;	98US-0089538P.	PR	24-SEP-1998;	98US-0101747P.
PR	17-JUN-1998;	98US-0089598P.	PR	23-SEP-1998;	98US-0101749P.
PR	17-JUN-1998;	98US-0089653P.	PR	18-JUN-1998;	98US-0101749P.
PR	18-JUN-1998;	98US-0089908P.	PR	19-JUN-1998;	98US-0101749P.
PR	22-JUN-1998;	98US-0090246P.	PR	22-JUN-1998;	98US-0101749P.

Query Match 100.0%; Score 1392; DB 6; Length 266;  
 Best Local Similarity 100.0%; Pred. No. 3.9e-149;  
 Matches 266; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1 MWFFQQGLSFLPSALVIWITSAAFISSYITAVTLHHIDPALPYISDTGTVAPEKCLFGAML 60	PR 31-OCT-1997;
Db	1 MWFFQQGLSFLPSALVIWITSAAFISSYITAVTLHHIDPALPYISDTGTVAPEKCLFGAML 60	PR 13-NOV-1997;
Qy	61 NIAAVLCLIAIIVRYKQVHALSPEENVTKLNKAGLVIGTISCLGLSIVANFQKTLFAA 120	PR 21-NOV-1997;
Db	61 NIAAVLCLIAIIVRYKQVHALSPEENVTKLNKAGLVIGTISCLGLSIVANFQKTLFAA 120	PR 24-NOV-1997;
Qy	121 HVSGAVLTFCMGSLYMPVQTILSYQMOPKIHGKQVFWIRLLVWCGVASLMSLTCSVL 180	PR 11-DEC-1997;
Db	121 HVSGAVLTFCMGSLYMPVQTILSYQMOPKIHGKQVFWIRLLVWCGVASLMSLTCSVL 180	PR 12-DEC-1997;
Qy	181 HSGNFGTDLQKCLHWNPEDKGYVLHMITTAAEWSMSFSFFGFFLTYIRDFOKISLRVEAN 240	PR 17-DEC-1997;
Db	181 HSGNFGTDLQKCLHWNPEDKGYVLHMITTAAEWSMSFSFFGFFLTYIRDFOKISLRVEAN 240	PR 18-DEC-1997;
Qy	241 LHGTLTLYDTAFCPINNERTLRSRDI 266	PR 19-DEC-1997;
Db	241 LHGTLTLYDTAFCPINNERTLRSRDI 266	PR 20-DEC-1997;

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Query Match 100.0%; Score 1392; DB 6; Length 266;  
 Best Local Similarity 100.0%; Pred. No. 3.9e-149;  
 Matches 266; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1 MWFFQQGLSFLPSALVIWITSAAFISSYITAVTLHHIDPALPYISDTGTVAPEKCLFGAML 60	PR 31-MAR-1998;
Db	1 MWFFQQGLSFLPSALVIWITSAAFISSYITAVTLHHIDPALPYISDTGTVAPEKCLFGAML 60	PR 31-MAR-1998;
Qy	61 NIAAVLCLIAIIVRYKQVHALSPEENVTKLNKAGLVIGTISCLGLSIVANFQKTLFAA 120	PR 01-APR-1998;
Db	61 NIAAVLCLIAIIVRYKQVHALSPEENVTKLNKAGLVIGTISCLGLSIVANFQKTLFAA 120	PR 02-APR-1998;
Qy	121 HVSGAVLTFCMGSLYMPVQTILSYQMOPKIHGKQVFWIRLLVWCGVASLMSLTCSVL 180	PR 08-APR-1998;
Db	121 HVSGAVLTFCMGSLYMPVQTILSYQMOPKIHGKQVFWIRLLVWCGVASLMSLTCSVL 180	PR 09-APR-1998;
Qy	181 HSGNFGTDLQKCLHWNPEDKGYVLHMITTAAEWSMSFSFFGFFLTYIRDFOKISLRVEAN 240	PR 15-APR-1998;
Db	181 HSGNFGTDLQKCLHWNPEDKGYVLHMITTAAEWSMSFSFFGFFLTYIRDFOKISLRVEAN 240	PR 21-APR-1998;
Qy	241 LHGTLTLYDTAFCPINNERTLRSRDI 266	PR 21-APR-1998;
Db	241 LHGTLTLYDTAFCPINNERTLRSRDI 266	PR 22-APR-1998;

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RESULT 9  
 ID ABU84267 standard; protein; 266 AA.  
 XX Human secreted/transmembrane protein (PRO) #5.  
 AC ABU84267;  
 DT 02-AUG-2003 (first entry)  
 XX Human secreted/transmembrane protein (PRO) #5.  
 KW Human; secreted and transmembrane protein; PRO; TNF-alpha;  
 KW tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;  
 KW tissue typing.  
 OS Homo sapiens.  
 PN US2003032112-A1.  
 XX 13-FEB-2003.  
 PD 21-JUN-2002; 2002US-00176756.  
 PR 18-SEP-1997; 97US-0059263P.  
 PR 18-SEP-1997; 97US-0059266P.  
 PR 17-OCT-1997; 97US-0062250P.  
 PR 21-OCT-1997; 97US-0063486P.  
 PR 24-OCT-1997; 97US-0063120P.  
 PR 24-OCT-1997; 97US-0063121P.  
 PR 28-OCT-1997; 97US-0063540P.  
 PR 28-OCT-1997; 97US-0063541P.  
 PR 28-OCT-1997; 97US-0063544P.  
 PR 28-OCT-1997; 97US-0063564P.  
 PR 29-OCT-1997; 97US-0063734P.  
 PR 31-OCT-1997; 97US-0063870P.

PR	16-JUN-1998;	98US-0089514P.	PR	23-SEP-1998;	98US-0101471P.
PR	17-JUN-1998;	98US-0089538P.	PR	23-SEP-1998;	98US-0101472P.
PR	17-JUN-1998;	98US-0089598P.	PR	23-SEP-1998;	98US-0101475P.
PR	18-JUN-1998;	98US-0089653P.	PR	23-SEP-1998;	98US-0101477P.
PR	19-JUN-1998;	98US-0089908P.	PR	24-SEP-1998;	98US-0101738P.
PR	22-JUN-1998;	98US-0089952P.	PR	24-SEP-1998;	98US-0101739P.
PR	22-JUN-1998;	98US-0090246P.	PR	24-SEP-1998;	98US-0101743P.
PR	22-JUN-1998;	98US-0090252P.	PR	24-SEP-1998;	98US-0101922P.
PR	22-JUN-1998;	98US-0090254P.	PR	25-SEP-1998;	98US-0101786P.
PR	24-JUN-1998;	98US-0090429P.	PR	29-SEP-1998;	98US-0102207P.
PR	24-JUN-1998;	98US-0090435P.	PR	29-SEP-1998;	98US-0102240P.
PR	24-JUN-1998;	98US-0090444P.	PR	29-SEP-1998;	98US-0102330P.
PR	24-JUN-1998;	98US-0090461P.	PR	29-SEP-1998;	98US-0102331P.
PR	24-JUN-1998;	98US-0090535P.	PR	30-SEP-1998;	98US-0102487P.
PR	25-JUN-1998;	98US-0090540P.	PR	30-SEP-1998;	98US-0102570P.
PR	25-JUN-1998;	98US-0090676P.	PR	30-SEP-1998;	98US-0102571P.
PR	25-JUN-1998;	98US-0090678P.	PR	01-OCT-1998;	98US-0102684P.
PR	25-JUN-1998;	98US-0090688P.	PR	01-OCT-1998;	98US-0102687P.
PR	25-JUN-1998;	98US-0090690P.	PR	02-OCT-1998;	98US-0102965P.
PR	25-JUN-1998;	98US-0090694P.	PR	06-OCT-1998;	98US-0103258P.
PR	25-JUN-1998;	98US-0090695P.	PR	06-OCT-1998;	98US-0103449P.
PR	25-JUN-1998;	98US-0090696P.	PR	07-OCT-1998;	98US-00168978.
			Query Match Score 100.0%;	DB 6;	Length 266;
			Best Local Similarity 100.0%;	Pred. No. 3.9e-149;	
			Mismatches 0;	Mismatches 0;	
			Indels 0;	Indels 0;	
			Gaps 0;	Gaps 0;	
Qy		1 MWFFQQGLSFLPSALVIWTSAAFIFSYITAVTLHHIDPALPYISDTGTVAPEKCLFGAML	Qy	61 NIAAVLCLATIIVRYKQVHALSPPEENVIIKLNKAGLVGILSCLGLSIVANFQKTTLFAA	
Db		1 MWFFQQGLSFLPSALVIWTSAAFIFSYITAVTLHHIDPALPYISDTGTVAPEKCLFGAML	Db	61 NIAAVLCLATIIVRYKQVHALSPPEENVIIKLNKAGLVGILSCLGLSIVANFQKTTLFAA	
Qy		60 MWFFQQGLSFLPSALVIWTSAAFIFSYITAVTLHHIDPALPYISDTGTVAPEKCLFGAML	Qy	121 HVSGAVLTFGMGSILMFMVQTILSYQMQLKQVFWIRLILVWCGVSALSMLTCSSVL	
Db		60 MWFFQQGLSFLPSALVIWTSAAFIFSYITAVTLHHIDPALPYISDTGTVAPEKCLFGAML	Db	121 HVSGAVLTFGMGSILMFMVQTILSYQMQLKQVFWIRLILVWCGVSALSMLTCSSVL	
Qy		120 MWFFQQGLSFLPSALVIWTSAAFIFSYITAVTLHHIDPALPYISDTGTVAPEKCLFGAML	Qy	120 MWFFQQGLSFLPSALVIWTSAAFIFSYITAVTLHHIDPALPYISDTGTVAPEKCLFGAML	
Db		120 MWFFQQGLSFLPSALVIWTSAAFIFSYITAVTLHHIDPALPYISDTGTVAPEKCLFGAML	Db	120 MWFFQQGLSFLPSALVIWTSAAFIFSYITAVTLHHIDPALPYISDTGTVAPEKCLFGAML	
Qy		181 HSGNFGTIDLEQKLHWNPEDKGYVLHMITTAEWSMSFSPPFGFPFLTYIRDFOQKISLRVEAN	Qy	181 LHGLTLYDTAPCPINNERTLLSRDI 266	RESULT 10
Db		181 HSGNFGTIDLEQKLHWNPEDKGYVLHMITTAEWSMSFSPPFGFPFLTYIRDFOQKISLRVEAN	Db	241 LHGLTLYDTAPCPINNERTLLSRDI 266	ABR66141
Qy		241 LHGLTLYDTAPCPINNERTLLSRDI 266	Qy	241 LHGLTLYDTAPCPINNERTLLSRDI 266	ID ABR66141 standard; protein; 266 AA.
Db		241 LHGLTLYDTAPCPINNERTLLSRDI 266	Db	241 LHGLTLYDTAPCPINNERTLLSRDI 266	XX ABR66141;
					XX AC
					XX DT 05-AUG-2003 (first entry)
					XX DE Human secreted polypeptide PRO180, SEQ ID NO:10.
					XX KW Human; PRO; secreted protein; transmembrane protein;
					KW extracellular domain; tumour necrosis factor-alpha; TNF-alpha;
					KW chondrocyte; proliferation; differentiation; cartilage disorder;
					KW bone disorder; arthritis; sports injury; cancer; tumour; diagnosis;
					KW adrenal tumour; lung; colon; breast; prostate; kidney; rectum; cervix;
					KW liver; drug screening; transgenic animal; genetic analysis;
					KW antiarthritic; vulnery; gene therapy.
					XX OS Homo sapiens.
					XX XX
					XX PN US2003027278-A1.
					XX XX
					PD 06-FEB-2003.
					PF 21-JUN-2002; 2002US-00176987.

XX PR 18-SEP-1997; 97US-0059263P.  
 PR 18-SEP-1997; 97US-0059266P.  
 PR 17-OCT-1997; 97US-0062250P.  
 PR 21-OCT-1997; 97US-0063486P.  
 PR 24-OCT-1997; 97US-0063120P.  
 PR 24-OCT-1997; 97US-0063121P.  
 PR 28-OCT-1997; 97US-0063540P.  
 PR 28-OCT-1997; 97US-0063541P.  
 PR 28-OCT-1997; 97US-0063544P.  
 PR 28-OCT-1997; 97US-0063564P.  
 PR 29-OCT-1997; 97US-0063734P.  
 PR 31-OCT-1997; 97US-0063870P.  
 PR 31-OCT-1997; 97US-0064103P.  
 PR 13-NOV-1997; 97US-0065311P.  
 PR 21-NOV-1997; 97US-0066120P.  
 PR 24-NOV-1997; 97US-0066466P.  
 PR 24-NOV-1997; 97US-0066772P.  
 PR 11-DEC-1997; 97US-0069335P.  
 PR 12-DEC-1997; 97US-0069425P.  
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 PR 10-AUG-1998; 98US-0096012P. PR 30-MAY-2000; 2000WO-US014941.  
 PR 11-AUG-1998; 98US-0096143P. PR 02-JUN-2000; 2000WO-US015264.  
 PR 11-AUG-1998; 98US-0096146P. PR 23-JUN-2000; 2000WO-US0213637P.  
 PR 12-AUG-1998; 98US-0096329P. PR 28-JUL-2000; 2000WO-US020710.  
 PR 17-AUG-1998; 98US-0096757P. PR 11-AUG-2000; 2000WO-US022031.  
 PR 17-AUG-1998; 98US-0096766P. PR 23-AUG-2000; 2000WO-US023522.  
 PR 17-AUG-1998; 98US-0096768P. PR 24-AUG-2000; 2000WO-US023328.  
 PR 17-AUG-1998; 98US-0096773P. PR 07-SEP-2000; 2000US-0230978P.

Query Match 100.0%; Score 1392; DB 6; Length 266;  
 Best Local Similarity 100.0%; Pred. No. 3.9e-149;  
 Matches 266; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MWWFOQGLSFLPSALVIWTSAAFIFSYITAVTLHHIDPALPYISDTGTVAPEKCLFGAML
Db	1	NIAAVLCIATIYRYKQVHALSPEENVILKUNKAGLVGLSGLSIVANFQKTTLFAA
Qy	61	NIAAVLCIATIYRYKQVHALSPEENVILKUNKAGLVGLSGLSIVANFQKTTLFAA
Db	61	NIAAVLCIATIYRYKQVHALSPEENVILKUNKAGLVGLSGLSIVANFQKTTLFAA
Qy	121	AVSGAVLTFCGMGSLLMFVOTILSYQMOPKIHGKQVFIRLLVWCGVSALSMLTCSSVL
Pr	180	98US-0097218P. 98US-0097661P.

**RESULT 14**  
**ID ABU59052 standard; protein; 266 AA.**

**AC XX**

**DT 28-APR-2003 (First entry)**

**DE Novel human secreted or transmembrane protein PRO180.**

**KW Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing; cardiac insufficiency disorder; cancer; tumour; immune response; adrenal cortical capillary endothelial growth; c-fos induction; vascular endothelial growth factor inhibition; VEGF inhibition; endothelial cell growth inhibitor; T-lymphocytes stimulation; retinal neurons cell survival; rod photoreceptor cell survival; retinal disorder; retinitis pigmentosa; kidney disorder; mammalian kidney mesangial cell proliferation; Berger disease; dermatitis; herpetiformis; Crohn's disease; chondrocyte proliferation; chondrocyte redifferentiation; sports injury; arthritis.**

**OS Homo sapiens.**

**XX US2002132252-A1.**

**PD 19-SEP-2002.**

**XX PP 14-NOV-2001; 2001US-00990442.**

**XX PR 02-JUN-1998; 98US-0088030P.**

**PR 04-JUN-1998; 98US-0088029P.**

**PR 04-JUN-1998; 98US-0088028P.**

**PR 04-JUN-1998; 98US-0088027P.**

**PR 04-JUN-1998; 98US-0088026P.**

**PR 04-JUN-1998; 98US-0088025P.**

**PR 04-JUN-1998; 98US-0088024P.**

**PR 04-JUN-1998; 98US-0088023P.**

**PR 04-JUN-1998; 98US-0088022P.**

**PR 04-JUN-1998; 98US-0088021P.**

**PR 04-JUN-1998; 98US-0088020P.**

**PR 04-JUN-1998; 98US-0088019P.**

**PR 04-JUN-1998; 98US-0088018P.**

**PR 04-JUN-1998; 98US-0088017P.**

**PR 04-JUN-1998; 98US-0088016P.**

**PR 04-JUN-1998; 98US-0088015P.**

**PR 04-JUN-1998; 98US-0088014P.**

**PR 04-JUN-1998; 98US-0088013P.**

**PR 04-JUN-1998; 98US-0088012P.**

**PR 04-JUN-1998; 98US-0088011P.**

**PR 04-JUN-1998; 98US-0088010P.**

**PR 04-JUN-1998; 98US-0088009P.**

**PR 04-JUN-1998; 98US-0088008P.**

**PR 04-JUN-1998; 98US-0088007P.**

**PR 04-JUN-1998; 98US-0088006P.**

**PR 04-JUN-1998; 98US-0088005P.**

**PR 04-JUN-1998; 98US-0088004P.**

**PR 04-JUN-1998; 98US-0088003P.**

**PR 04-JUN-1998; 98US-0088002P.**

**PR 04-JUN-1998; 98US-0088001P.**

**PR 05-JUN-1998; 98US-00880167P.**

**PR 05-JUN-1998; 98US-00880202P.**

**PR 05-JUN-1998; 98US-00880212P.**

**PR 05-JUN-1998; 98US-00880217P.**

**PR 09-JUN-1998; 98US-0088655P.**

**PR 10-JUN-1998; 98US-0088734P.**

**PR 10-JUN-1998; 98US-0088738P.**

**PR 10-JUN-1998; 98US-0088742P.**

**PR 10-JUN-1998; 98US-0088810P.**

**PR 10-JUN-1998; 98US-0088824P.**

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**Qy 181 HSGNFGTDLDEQKLHWNPEDKGVLHMITTAEWSMSFSFFGLTYIRDFQKISLRVEAN 240**

**Db 181 HSGNFGTDLDEQKLHWNPEDKGVLHMITTAEWSMSFSFFGLTYIRDFQKISLRVEAN 240**

**Qy 241 LHGLTLYDTAPCPINNERTRLLSRDI 266**

**Db 241 LHGLTLYDTAPCPINNERTRLLSRDI 266**

**Db**

**Qy**

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**Qy**

**Db**

**PR 10-JUN-1998; 98US-0088826P.**

**PR 11-JUN-1998; 98US-0088858P.**

**PR 11-JUN-1998; 98US-0088861P.**

**PR 11-JUN-1998; 98US-0088876P.**

**PR 12-JUN-1998; 98US-0089105P.**

**PR 16-JUN-1998; 98US-0089440P.**

**PR 16-JUN-1998; 98US-0089512P.**

**PR 16-JUN-1998; 98US-0089514P.**

**PR 17-JUN-1998; 98US-0089532P.**

**PR 17-JUN-1998; 98US-0089538P.**

**PR 18-JUN-1998; 98US-0089598P.**

**PR 18-JUN-1998; 98US-0089599P.**

**PR 17-JUN-1998; 98US-0089600P.**

**PR 17-JUN-1998; 98US-0089601P.**

**PR 17-JUN-1998; 98US-0089907P.**

**PR 17-JUN-1998; 98US-0089908P.**

**PR 16-SEP-1998; 98WO-US019330.**

**PR 17-SEP-1998; 98WO-US019437.**

**PR 07-OCT-1998; 98WO-US021141.**

**PR 01-DEC-1998; 98WO-US025108.**

**PR 05-JAN-1999; 99WO-US00106.**

**PR 08-MAR-1999; 99WO-US005028.**

**PR 02-JUN-1999; 99WO-US012252.**

**PR 15-SEP-1999; 99WO-US021090.**

**PR 15-SEP-1999; 99WO-US021547.**

**PR 30-NOV-1999; 99WO-US028313.**

**PR 01-DEC-1999; 99WO-US028301.**

**PR 01-DEC-1999; 99WO-US028634.**

**PR 16-DEC-1999; 99WO-US030095.**

**PR 20-DEC-1999; 99WO-US030911.**

**PR 06-JAN-2000; 2000WO-US000219.**

**PR 06-JAN-2000; 2000WO-US00376.**

**PR 11-FEB-2000; 2000WO-US003565.**

**PR 18-FEB-2000; 2000WO-US004341.**

**PR 22-FEB-2000; 2000WO-US004414.**

**PR 24-FEB-2000; 2000WO-US004914.**

**PR 02-MAR-2000; 2000WO-US005004.**

**PR 02-MAR-2000; 2000WO-US005841.**

**PR 10-MAR-2000; 2000WO-US06319.**

**PR 15-MAR-2000; 2000WO-US066884.**

**PR 20-MAR-2000; 2000WO-US007377.**

**PR 30-MAR-2000; 2000WO-US008439.**

**PR 15-MAY-2000; 2000WO-US013358.**

**PR 17-MAY-2000; 2000WO-US013705.**

**PR 22-MAY-2000; 2000WO-US014042.**

**PR 30-MAY-2000; 2000WO-US014941.**

**PR 02-JUN-2000; 2000WO-US015264.**

**PR 28-JUL-2000; 2000WO-US020710.**

**PR 11-AUG-2000; 2000WO-US022031.**

**PR 23-AUG-2000; 2000WO-US023522.**

**PR 24-AUG-2000; 2000WO-US023328.**

**PR 08-NOV-2000; 2000WO-US030952.**

**PR 01-DEC-2000; 2000WO-US032678.**

**PR 28-FEB-2001; 2001WO-US006520.**

**PR 01-JUN-2001; 2001WO-US017800.**

**PR 20-JUN-2001; 2001WO-US019692.**

**PR 29-JUN-2001; 2001WO-US021066.**

**PR 09-JUL-2001; 2001WO-US021735.**

**PR 28-AUG-2001; 2001US-00941992.**

**XX PA (GETH ) GENENTECH INC.**

**XX PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL, Godowski PJ, Ferrara N, Fong S, Gerber H, Gerritsen MB, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF, Roy MA, Stewart TA, Watanabe CK, Williams PM, Wood WI, Zhang Z;**

**XX DR WPI; 2003-247083/24.**

**XX DR N-PSDB; ABX80122.**

**XX PT Novel isolated PRO polypeptides e.g., PRO826, PRO1068, PRO1184, PRO1346**

PT and PRO1375, which stimulate proliferation of stimulated T-lymphocytes  
 PT are therapeutically useful for enhancing immune response and in cancer  
 PT treatments.  
 XX

Claim 12; Fig 15; 648pp; English.

The invention describes an isolated human PRO polypeptide. The PRO polypeptides are useful in detecting PRO polypeptides in a sample, in linking a bioactive molecule to a cell expressing a PRO polypeptide, and in modulating at least one biological activity of a cell expressing a PRO polypeptide. PRO1312 stimulates hypertrophy of neonatal heart and is thus useful for treating cardiac insufficiency disorders. PRO1154 and PRO1186 stimulate adrenal cortical capillary endothelial growth, and PRO536, PRO943, PRO828, PRO826, PRO819, PRO1126, PRO1360 and PRO1387 induce c-fos in endothelial cells, and are thus useful for treating conditions or disorders where angiogenesis would be beneficial, e.g. wound healing and antagonist of this polypeptide are useful for treating cancerous tumours. PRO812 inhibits vascular endothelial growth factor (VEGF) stimulated proliferation of endothelial cells and is thus useful for inhibiting endothelial cell growth in mammals which would be beneficial in inhibiting tumour growth. PRO826, PRO1068, PRO1184, PRO1346 and PRO1375 stimulate proliferation of stimulated T-lymphocytes and are therapeutically useful for enhancing immune response. PRO828, PRO826, PRO1068 or PRO1132 enhance survival of retinal neurons cells (PRO1132 is also enhances survival/proliferation of rod photoreceptor cells) and therefore are useful for treating retinal disorders of injuries, e.g. retinitis pigmentosum, AMD, PRO819, PRO813 and PRO1166 induce proliferation of mammalian kidney mesangial cells, and therefore are useful for treating kidney disorders associated with decreased mesangial cell function such as Berger disease or other nephropathies associated with dermatitis, herpetiformis or Crohn's disease. PRO1310, PRO844, PRO1312, PRO1192 and PRO1387 induce the proliferation and/or redifferentiation of chondrocytes in culture and are thus useful for treating sports injuries, and arthritis. This is the amino acid sequence of a novel human PRO protein

XX  
 SQ Sequence 266 AA;

Query Match 100.0%; Score 1392; DB 6; Length 266;  
 Best Local Similarity 100.0%; Pred. No. 3.9e-149;  
 Matches 266; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MWWFQQGLSPLPSALVIWTSAAPIPSYITAVTLHIDPALPYISDGTGTVAPBKCLFGAML	60
Db	1	MWWFQQGLSPLPSALVIWTSAAPIPSYITAVTLHIDPALPYISDGTGTVAPBKCLFGAML	60
Qy	61	NIAAVLCIATIYRYKQVHALSPEENVIKLNKAGLVLGILSCLGLSIVANFQKTTLFCAA	120
Db	61	NIAAVLCIATIYRYKQVHALSPEENVIKLNKAGLVLGILSCLGLSIVANFQKTTLFCAA	120
Qy	121	HVSGAVLTFGMGSLYMFVQTILSYQMOPKIHGKQVFWRILLIVIWCGVSAALSMLTCSSVL	180
Db	121	HVSGAVLTFGMGSLYMFVQTILSYQMOPKIHGKQVFWRILLIVIWCGVSAALSMLTCSSVL	180
Qy	181	HSGNFGTDLEQKLHNPNEDKGYVLHMITTAEWSMSFSFFGFLTYIRDQKISLRVEAN	240
Db	181	HSGNFGTDLEQKLHNPNEDKGYVLHMITTAEWSMSFSFFGFLTYIRDQKISLRVEAN	240
Qy	241	LHGGLYDTAPCPINNERTLLSRDI	266
Db	241	LHGGLYDTAPCPINNERTLLSRDI	266

RESULT 15  
 ABU82564  
 ID ABU82564 standard; protein; 266 AA.  
 XX  
 AC ABU82564;  
 XX DT 26-JUN-2003 (First entry)  
 XX DB Human Secreted/transmembrane protein PRO180.  
 XX PR 23-JUN-1998;  
 XX PR 23-JUN-1998;

KW Human; PRO; secreted protein; transmembrane protein;	KW cardiac insufficiency disorders; angiogenesis; wound healing;
KW cancerous tumour; immune response; retinal disorder; sight loss;	KW retinitis pigmentosum; age-related macular degeneration; AMD;
KW kidney disorder; Berger disease; nephropathy; dermatitis; herpetiformis;	KW Crohn's disease; sports injury; arthritis.
XX Homo sapiens.	
XX OS	
XX PN US2003032023-A1.	
XX PD 13-FEB-2003.	
XX PR 14-NOV-2001; 2001US-00990711.	
XX PR 16-JUN-1997; 97US-0049787P.	
XX PR 17-OCT-1997; 97US-0062250P.	
XX PR 05-NOV-1997; 97WO-US020069.	
XX PR 12-NOV-1997; 97US-0065186P.	
XX PR 13-NOV-1997; 97US-0065311P.	
XX PR 24-NOV-1997; 97US-0066770P.	
XX PR 25-FEB-1998; 98US-0075945P.	
XX PR 20-MAR-1998; 98US-0078910P.	
XX PR 28-APR-1998; 98US-0083322P.	
XX PR 07-MAY-1998; 98US-0084600P.	
XX PR 28-MAY-1998; 98US-0087106P.	
XX PR 02-JUN-1998; 98US-0087607P.	
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XX PR 09-JUN-1998; 98US-0088655P.	
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XX PR 11-JUN-1998; 98US-0088810P.	
XX PR 12-JUN-1998; 98US-0089105P.	
XX PR 16-JUN-1998; 98US-0089440P.	
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XX PR 16-JUN-1998; 98US-0089600P.	
XX PR 17-JUN-1998; 98US-0089532P.	
XX PR 17-JUN-1998; 98US-0089538P.	
XX PR 17-JUN-1998; 98US-0089598P.	
XX PR 17-JUN-1998; 98US-0089599P.	
XX PR 18-JUN-1998; 98US-0089907P.	
XX PR 18-JUN-1998; 98US-0089908P.	
XX PR 19-JUN-1998; 98US-0089947P.	
XX PR 19-JUN-1998; 98US-0089948P.	
XX PR 19-JUN-1998; 98US-0089952P.	
XX PR 22-JUN-1998; 98US-0090246P.	
XX PR 22-JUN-1998; 98US-0090252P.	
XX PR 22-JUN-1998; 98US-0090254P.	
XX PR 23-JUN-1998; 98US-0090349P.	
XX PR 23-JUN-1998; 98US-0090355P.	

PR 24-JUN-1998; 98US-0090429P.  
 PR 24-JUN-1998; 98US-0090431P.  
 PR 24-JUN-1998; 98US-0090435P.  
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 PR 24-JUN-1998; 98US-0090540P.  
 PR 24-JUN-1998; 98US-0090542P.  
 PR 24-JUN-1998; 98US-0090557P.  
 PR 25-JUN-1998; 98US-0090676P.  
 PR 25-JUN-1998; 98US-0090678P.  
 PR 25-JUN-1998; 98US-0090690P.  
 PR 25-JUN-1998; 98US-0090694P.  
 PR 25-JUN-1998; 98US-0090695P.  
 PR 25-JUN-1998; 98US-0090696P.  
 PR 26-JUN-1998; 98US-0090862P.  
 PR 26-JUN-1998; 98US-0090863P.  
 PR 01-JUL-1998; 98US-0091360P.  
 PR 01-JUL-1998; 98US-0091544P.  
 PR 02-JUL-1998; 98US-0091478P.  
 PR 02-JUL-1998; 98US-0091519P.  
 PR 02-JUL-1998; 98US-0091626P.  
 PR 02-JUL-1998; 98US-0091628P.  
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 PR 02-JUL-1998; 98US-0091646P.  
 PR 02-JUL-1998; 98US-0091673P.  
 PR 07-JUL-1998; 98US-0091978P.  
 PR 07-JUL-1998; 98US-0091982P.  
 PR 09-JUL-1998; 98US-0092182P.  
 PR 10-JUL-1998; 98US-0092472P.  
 PR 20-JUL-1998; 98US-0093339P.  
 PR 30-JUL-1998; 98US-0094651P.  
 PR 04-AUG-1998; 98US-0095282P.  
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 PR 10-AUG-1998; 98US-0095916P.  
 PR 10-AUG-1998; 98US-0095929P.  
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 PR 11-AUG-1998; 98US-0096143P.  
 PR 12-AUG-1998; 98US-0096146P.  
 PR 17-AUG-1998; 98US-0096329P.  
 PR 17-AUG-1998; 98US-0096757P.  
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 PR 17-AUG-1998; 98US-0096773P.  
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 PR 17-AUG-1998; 98US-0096894P.  
 PR 17-AUG-1998; 98US-0096895P.  
 PR 18-AUG-1998; 98US-0096949P.  
 PR 18-AUG-1998; 98US-0096950P.  
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 PR 18-AUG-1998; 98US-0096960P.  
 PR 26-AUG-1998; 98US-0097022P.  
 PR 19-AUG-1998; 98US-0097141P.  
 PR 20-AUG-1998; 98US-0097218P.  
 PR 24-AUG-1998; 98US-0097661P.  
 PR 26-AUG-1998; 98US-0097952P.  
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 PR 26-AUG-1998; 98US-0097979P.  
 PR 26-AUG-1998; 98US-0097986P.  
 PR 26-AUG-1998; 98US-0098014P.

Query Match 100.0%; Score 1392; DB 6; Length 266;

Best Local Similarity 100.0%; Pred. No. 3.9e-149; Mismatches 0; Indels 0; Gaps 0;

Matches 266; Conservative 1; Query 1 MWFFQOGLSFLPSALVIWTSAAFIYSYITAVTLLHIDPALPYISDTGTVAPEKCLFGAML

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Qy 61 NIAAVLCIATIYVRYKQVHALSPEENVIIKLINKAGLVLGILSCLGLSIVANFQKTTLFAA

Db 61 NIAAVLCIATIYVRYKQVHALSPEENVIIKLINKAGLVLGILSCLGLSIVANFQKTTLFAA

Qy 121 HSGNFGTDLQKLHWNPEDKGYVLLHMITTAABWSMSFSFFGFLTYIRDFOKISLRVEAN

Db 121 HSGNFGTDLQKLHWNPEDKGYVLLHMITTAABWSMSFSFFGFLTYIRDFOKISLRVEAN

Qy 181 HSGNFGTDLQKLHWNPEDKGYVLLHMITTAABWSMSFSFFGFLTYIRDFOKISLRVEAN

Db 181 HSGNFGTDLQKLHWNPEDKGYVLLHMITTAABWSMSFSFFGFLTYIRDFOKISLRVEAN

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